Tizen-based TV WebApp SDK

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Overview
Tizen-based TV SDK Overview

**Web App SDK**
- Tools for HTML/CSS/JS web applications.
  - HTML5 APIs
  - IDE
  - Emulators

**Platform SDK**
- Tools for developing native apps and TV modules.
  - TV SW Module Build Tools
  - DRM Support
  - App Multitasking

**Utility Tools**
- Debugging and development tools.
  - Dynamic Analyzer
  - Web Inspector

**Partners**

**Everyone**
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7/1 : Beta Release
11/1 : 1.0 Release
Tizen-based TV Web SDK

IDE

Emulators
- Web Simulator
- Full Stack TV Emulator
Tizen-based TV Web App Structure

HTML Page: Structure
CSS: Style
JavaScript: Behavior
config.xml: Environment & application info
Specialization for Tizen

- **Best Tool for Developing Tizen Web Application**
  - Project Management
  - Project Wizard & Explorer
  - Templates, User Templates and Sample Apps
  - Configuration Editor for Tizen Web App (W3C Widget configuration)
Tizen-based TV SDK: IDE

- Templates
- Code Editor
- Emulator Manager
- Log Console
- PNaCl

& More
Tizen-based TV SDK: IDE

- **Features**
  - Eclipse-based
  - HTML, JavaScript, CSS
  - Emulator Integration
  - Project Templates
  - More…
Tizen-based TV SDK: IDE

- Features
  - Hover Insight
  - Auto-complete
Tizen-based TV Web SDK: Web Simulator

- Light Weight & Ideal for Quick Testing
Tizen-based TV Web SDK

- Code Editor: Edit, debug, and package your apps.
- TV Device Emulator
- Web Simulator
- APIs, Documentation, and more

Tizen-based TV Web SDK 1.0 is Coming on Nov. 1st
Caph UI Elements

Caph has many impressive widgets.
Caph UI Designer

Features
- WYSIWYG Designer
- Drag-n-Drop Components
- Programming Support
- Page Management
- Components Snippets
- More…

Drag and drop component to here

Component property

Outline
caph.define("caph.test.Test2", {
    $extend: "caph.test.Test1",
    $init: function() {
        this.x = 30;
    },
    // public area
    fn: function() {
        this.$super.fn();
        console.log(this.x * 10);
    },
    test2: function() {
        console.log("test2");
    }
});
Overview
What’s New?

• Web API
• Standalone Mode
• HTTP Live Streaming
• More
  • Integration Ongoing
Functionality: Web API

- Standard HTML5 + Tizen Device API
Functionality: Load App

- Run As From IDE
- Standalone Mode
Functionality: HLS
Functionality: Remote Control
Functionality: Connect Mobile RC

- QR Code
- UPnP
Functionality: Web Inspector
Functionality: Configuration Settings

- Network Setting:
  - Network Type
  - MAC Address
  - IP Address
  - Subnet Mask
  - Gateway
  - DNS Server

- System:
  - Audio Output Mode
  - Display 3D Effect Mode

- Simulator:
  - Root Path
  - Recover simulator initial status

- HLS:
  - Playlist Files (m3u8)
  - Playlist URL (m3u8)
Functionality: Panel Settings

Panel

System Summary
- Platform: Tizen TV
- Version: 1.0 RC1
- Device: Tizen TV (1920x1080)
- Manufacturer: Samsung
- Screen: 1920x1080
- Viewport: 1920x1080

- Zooming
- Volume Control
- Application Configuration
- Packages and Applications
- Test Window

Visible Panel Items
- System Summary
- Zooming
- Volume Control
- Test Window
- Application Configuration
- Packages and Applications

Check to Display

Select All  Apply  Cancel
Example: How to debug with Web Simulator

- Packages and Applications – 1/3
Example: How to debug with Web Simulator

- Packages and Applications – 2/3

The installed Test package contains two apps.
Example: How to debug with Web Simulator

- Packages and Applications – 3/3

```javascript
function onListInstalledApps(applications) {
    for (var i = 0; i < applications.length; i++)
        console.log("ID : " + applications[i].id);
}
tizen.application.getAppsInfo(onListInstalledApps);
```

Before

```
> function onListInstalledApps(applications) {
  for (var i = 0; i < applications.length; i++)
      console.log("ID : " + applications[i].id);
}
tizen.application.getAppsInfo(onListInstalledApps);
```

After

```
> function onListInstalledApps(applications) {
  for (var i = 0; i < applications.length; i++)
      console.log("ID : " + applications[i].id);
}
tizen.application.getAppsInfo(onListInstalledApps);
```

- ID : pseudoapp00
- ID : http://tizen.org/viewer
- ID : http://tizen.org/player
Conclusion
Conclusion

- Tizen-based TV Web SDK allows you to make Web Application easily and quickly.
- Caph UI Designer will be released soon.
- More features will be supported in SDK.
  - Multi-screen
  - Billing etc.